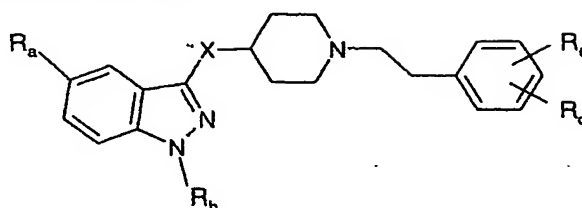


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CLAIMS

1. A compound of formula:



(I)

where

5 X is C(O)NHCH₂, NHC(O) or NHC(O)CH₂;

R_a is H, NH₂C(O), CH₃C(O)NH, CH₃SO₂, CH₃SO₂NH, linear or branched C₁-C₃ alkyl, linear or branched C₁-C₃ alkoxy, or halogen;

10 R_b is H, linear or branched C₁-C₆ alkyl; aryl-(C₁-C₃)alkyl optionally substituted with 1 or 2 halogen atoms, with a C₁-C₃ alkyl group or a C₁-C₃ alkoxy group;

and in which

a) when X is C(O)NHCH₂

15 R_c is hydroxy, amino, di-(C₁-C₃)alkyl-amino, tri-(C₁-C₃)alkyl-ammoniomethyl, nitro, trifluoromethyl, nitrile, CH₃C(O)NH, CH₃SO₂NH, CH₃SO₂, R'R''NSO₂, where R' and R'' are H, or a linear or branched C₁-C₆ alkyl,

20 R_d is H, hydroxy, amino, di-(C₁-C₃)alkyl-amino, tri-(C₁-C₃)alkylammoniomethyl, nitro, trifluoromethyl, nitrile, CH₃C(O)NH, CH₃SO₂NH, CH₃SO₂, R'R''NSO₂, where R' and R'' have the meanings stated above,

with the proviso, however, that when R_a and R_d are both H, and R_b is isopropyl, then R_c is not hydroxy;

b) when X is NHC(O) or NHC(O)CH₂

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R_c and R_d , which may be equal or different, are H, hydroxy, C_1 - C_3 alkoxy, halogen, amino, di- $(C_1$ - $C_3)$ alkylamino, tri- $(C_1$ - $C_3)$ alkylammoniomethyl, nitro, trifluoromethyl, nitrile, $CH_3C(O)NH$, CH_3SO_2NH , CH_3SO_2 , $R'R''NSO_2$, where
5 R' and R'' have the meanings stated above,

and their acid addition salts with pharmaceutically acceptable organic and inorganic acids.

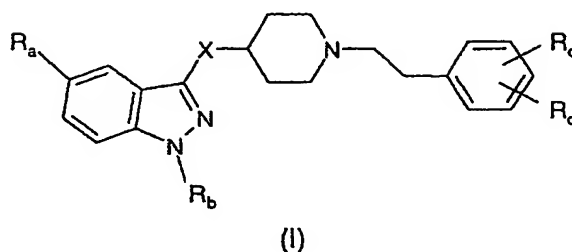
2. A compound according to claim 1, characterized in that R_a is H or C_1 - C_3 alkyl.
- 10 3. A compound according to claim 1 or 2, characterized in that R_b is H or C_1 - C_3 alkyl.
4. A compound according to any one of the claims 1 to 3, characterized in that R_c is H, NO_2 , NH_2 , OH or C_1 - C_3 alkoxy.
5. A compound according to any one of the claims 1 to 4,
15 characterized in that R_d is H.
6. An acid addition salt of a compound according to any one of the claims 1 to 5, characterized in that the acid is selected from the group comprising oxalic, maleic, methanesulphonic, paratoluenesulphonic, succinic, citric, tartaric, lactic, hydrochloric,
20 phosphoric and sulphuric acid.
7. N((1-(2-(4-nitrophenyl)ethyl)-4-piperidinyl)methyl)-1H-indazole-3-carboxamide and the pharmaceutically acceptable acid addition salts thereof.
8. N((1-(2-(4-nitrophenyl)ethyl)-4-piperidinyl)methyl)-1H-indazole-3-
25 carboxamide hydrochloride.
9. N((1-(2-(4-aminophenyl)ethyl)-4-piperidinyl)methyl)-1H-indazole-3-carboxamide and the pharmaceutically acceptable acid addition salts thereof.
10. N((1-(2-(4-aminophenyl)ethyl)-4-piperidinyl)methyl)-1H-indazole-3-
30 carboxamide dihydrochloride.

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11. N((1-(2-(4-nitrophenyl)ethyl)-4-piperidinyl)methyl)-1-(1-methylethyl)-1H-indazole-3-carboxamide and the pharmaceutically acceptable acid addition salts thereof.
12. N((1-(2-(4-nitrophenyl)ethyl)-4-piperidinyl)methyl)-1-(1-methylethyl)-1H-indazole-3-carboxamide oxalate.
13. N((1-(2-(4-aminophenyl)ethyl)-4-piperidinyl)methyl)-1-(1-methylethyl)-1H-indazole-3-carboxamide and the pharmaceutically acceptable acid addition salts thereof.
14. N((1-(2-(4-aminophenyl)ethyl)-4-piperidinyl)methyl)-1-(1-methylethyl)-1H-indazole-3-carboxamide dihydrochloride.
15. N-(1-methyl-1H-indazol-3-yl)-1-(2-phenylethyl)piperidine-4-carboxamide and the pharmaceutically acceptable acid addition salts thereof.
16. N-(1-methyl-1H-indazol-3-yl)-1-(2-phenylethyl)piperidine-4-carboxamide hydrochloride.
17. N-(1-methyl-1H-indazol-3-yl)-1-(2-(4-methoxyphenyl)ethyl)piperidine-4-carboxamide and the pharmaceutically acceptable acid addition salts thereof.
18. N-(1-methyl-1H-indazol-3-yl)-1-(2-(4-methoxyphenyl)ethyl)piperidine-4-carboxamide hydrochloride.
19. N-(1-methyl-1H-indazol-3-yl)-1-(2-(4-hydroxyphenyl)ethyl)piperidine-4-carboxamide and the pharmaceutically acceptable acid addition salts thereof.
20. N-(1-methyl-1H-indazol-3-yl)-1-(2-(4-hydroxyphenyl)ethyl)piperidine-4-carboxamide hydrochloride.
21. N((1-(2-(4-hydroxyphenyl)ethyl)-4-piperidinyl)methyl)-5-methyl-1-(1-methylethyl)-1H-indazole-3-carboxamide and the pharmaceutically acceptable acid addition salts thereof.
22. N((1-(2-(4-hydroxyphenyl)ethyl)-4-piperidinyl)methyl)-5-methyl-1-(1-methylethyl)-1H-indazole-3-carboxamide hydrochloride.

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23. A method for preparing a compound of formula (I)



and its acid addition salts with pharmaceutically acceptable organic or inorganic acids,

5 where

X is C(O)NHCH₂;

R_a is H, NH₂C(O), CH₃C(O)NH, CH₃SO₂, CH₃SO₂NH, linear or branched C₁-C₃ alkyl, linear or branched C₁-C₃ alkoxy, or halogen;

10 R_b is H, linear or branched C₁-C₆ alkyl; aryl-(C₁-C₃)alkyl optionally substituted with 1 or 2 halogen atoms, with a C₁-C₃ alkyl group or a C₁-C₃ alkoxy group;

R_c is hydroxy, amino, di-(C₁-C₃)alkyl-amino, tri-(C₁-C₃)alkylammoniomethyl, nitro, trifluoromethyl, nitrile, CH₃C(O)NH, CH₃SO₂NH, CH₃SO₂, R'R''NSO₂, where R' and R'' are H, or a linear or branched C₁-C₆ alkyl,

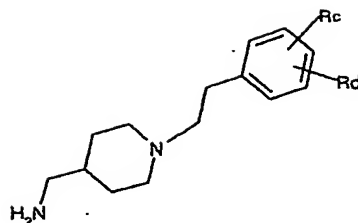
15 R_d is H, hydroxy, amino, di-(C₁-C₃)alkyl-amino, tri-(C₁-C₃)alkylammoniomethyl, nitro, trifluoromethyl, nitrile, CH₃C(O)NH, CH₃SO₂NH, CH₃SO₂, R'R''NSO₂, where R' and R'' have the meanings stated above,

20 with the proviso, however, that when R_a and R_d are both H, and R_b is isopropyl, then R_c is not hydroxy;

characterized in that it comprises the following stages:

a) reaction of an amine of formula (II)

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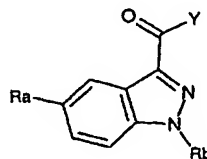
(II)

where

R_c and R_d have the same meanings as stated above or, when
 R_c or R_d is an amino or alcoholic group, R_c and R_d may be an
 amino or alcoholic group protected by a conventional protective
 group,

5

with a derivative of an indazole-carboxylic acid of formula (IIIa)

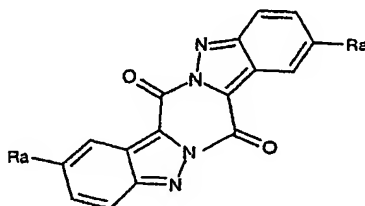


(IIIa)

where

R_a and R_b have the meanings stated above, and
 Y is a Cl or Br atom, or a group OR or OC(O)R, where R is a
 linear or branched alkyl having 1 to 6 carbon atoms,
 or with a derivative of an indazole-carboxylic acid of formula
 (IIIb)

10



(IIIb)

15

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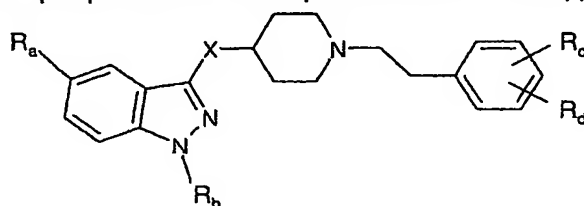
where

R_a has the meanings stated above,

b) cleavage of any possible protective group of the aforesaid amino or alcoholic group, and

5 c) optional formation of an acid addition salt of the indazolamide of formula (I) with a pharmaceutically acceptable organic or inorganic acid.

24. A method of preparation a compound of formula (I)



(I)

10 and the pharmaceutically acceptable acid addition salts thereof with organic or inorganic acids,

where

X is NHC(O) or NHC(O)CH_2 ;

15 R_a is H, $\text{NH}_2\text{C(O)}$, $\text{CH}_3\text{C(O)NH}$, CH_3SO_2 , $\text{CH}_3\text{SO}_2\text{NH}$, linear or branched C_1 - C_3 alkyl, linear or branched C_1 - C_3 alkoxy, or halogen;

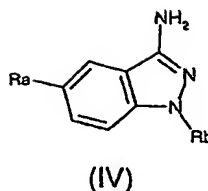
R_b is H, linear or branched C_1 - C_6 alkyl; aryl- $(\text{C}_1$ - $\text{C}_3)$ alkyl optionally substituted with 1 or 2 halogen atoms, with a C_1 - C_3 alkyl group or a C_1 - C_3 alkoxy group;

20 R_c and R_d , which may be equal or different, are H, hydroxy, C_1 - C_3 alkoxy, halogen, amino, di- $(\text{C}_1$ - $\text{C}_3)$ alkylamino, tri- $(\text{C}_1$ - $\text{C}_3)$ alkylammoniomethyl, nitro, trifluoromethyl, nitrile, $\text{CH}_3\text{C(O)NH}$, $\text{CH}_3\text{SO}_2\text{NH}$, CH_3SO_2 , $\text{R}'\text{R}''\text{NSO}_2$, where R' and R'' are H, or linear or branched C_1 - C_6 alkyl,

25 characterized in that it comprises the following stages:

a') reaction of an amine of formula (IV)

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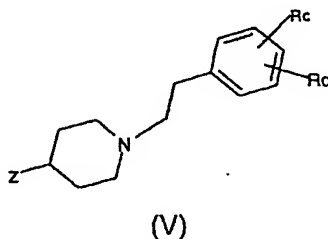


where

R_a and R_b have the meanings stated above,

is condensed with a derivative of a carboxylic acid of formula
(V)

5



where

R_c and R_d have the same meanings as stated above or, when
 R_c or R_d is an amino or alcoholic group, R_c and R_d may be an
amino or alcoholic group protected by a protective group of
conventional type, and

10

Z is a group $C(O)Y$ or $CH_2C(O)Y$ in which Y is a Cl or Br atom,
or an OR or $OC(O)R$ group, where R is a linear or branched
alkyl having from 1 to 6 carbon atoms,

15

- b') cleavage of any possible protective group of the aforesaid
amino or alcoholic group, and
- c') optional formation of a salt of acid addition of the indazolamide
of formula (I) with a pharmaceutically acceptable organic or
inorganic acid.

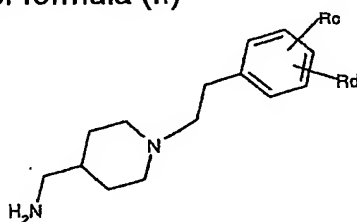
20

25. A method according to claim 23, characterized in that stage (a) is
carried out by reacting a compound of formula (II) with a

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compound of formula (IIIa) in which Y is chlorine, or with a compound of formula (IIIb) in the presence of a suitable diluent and at a temperature of from 0 to 140°C for a time of from 0.5 to 20 hours.

- 5 26. A method according to claim 24, characterized in that stage (a') is carried out by reacting a compound of formula (IV) with a compound of formula (V) in which Y is chlorine in the presence of a suitable diluent and at a temperature of from 0 to 140°C for a time of from 0.5 to 20 hours.
- 10 27. A method according to claim 25 or 26, characterized in that the reaction temperature is of from 15 to 40°C.
28. A method according to claim 25 or 26, characterized in that the reaction time is of from 1 to 18 hours.
29. A method according to any one of the claims from 25 to 28,
- 15 characterized in that the diluent is an aprotic diluent selected from the group comprising toluene, dimethylformamide and dimethylsulphoxide.
30. An intermediate of formula (II)



(II)

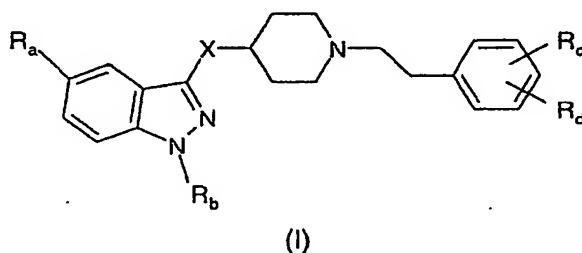
20 where

R_c is hydroxy, amino, di-(C₁-C₃)alkyl-amino, tri-(C₁-C₃)alkyl-ammoniomethyl, nitro, trifluoromethyl, nitrile, CH₃C(O)NH, CH₃SO₂NH, CH₃SO₂, R'R''NSO₂, where R' and R'' are H, or linear or branched C₁-C₆ alkyl,

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R_d is H, hydroxy, amino, di-(C₁-C₃)alkyl-amino, tri-(C₁-C₃)alkylammoniomethyl, nitro, trifluoromethyl, nitrile, CH₃C(O)NH, CH₃SO₂NH, CH₃SO₂, R'R''NSO₂, where R' and R'' have the meanings stated above.

- 5 31. A pharmaceutical composition containing an effective amount of a compound of formula (I):



where

X is C(O)NHCH₂, NHC(O) or NHC(O)CH₂;

10 R_a is H, NH₂C(O), CH₃C(O)NH, CH₃SO₂, CH₃SO₂NH, linear or branched C₁-C₃ alkyl, linear or branched C₁-C₃ alkoxy, or halogen;

R_b is H, linear or branched C₁-C₆ alkyl; aryl-(C₁-C₃)alkyl optionally substituted with 1 or 2 halogen atoms, with a C₁-C₃ alkyl group or a C₁-C₃ alkoxy group;

15 and in which

a) when X is C(O)NHCH₂

R_c is hydroxy, amino, di-(C₁-C₃)alkyl-amino, tri-(C₁-C₃)alkylammoniomethyl, nitro, trifluoromethyl, nitrile, CH₃C(O)NH, CH₃SO₂NH, CH₃SO₂, R'R''NSO₂, where R' and R'' are H, or a linear or branched C₁-C₆ alkyl,

20

R_d is H, hydroxy, amino, di-(C₁-C₃)alkyl-amino, tri-(C₁-C₃)alkylammoniomethyl, nitro, trifluoromethyl, nitrile, CH₃C(O)NH, CH₃SO₂NH, CH₃SO₂, R'R''NSO₂, where R' and R'' have the meanings stated above,

25

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with the proviso, however, that when R_a and R_d are both H, and R_b is isopropyl, then R_c is not hydroxy;

b) when X is NHC(O) or NHC(O)CH_2

5 R_c and R_d , which may be equal or different, are H, hydroxy, C_1 - C_3 alkoxy, halogen, amino, di- (C_1-C_3) alkylamino, tri- (C_1-C_3) alkylammoniomethyl, nitro, trifluoromethyl, nitrile, $\text{CH}_3\text{C(O)NH}$, $\text{CH}_3\text{SO}_2\text{NH}$, CH_3SO_2 , $\text{R}'\text{R}''\text{NSO}_2$, where R' and R'' have the meanings stated above,

10 or of a pharmaceutically acceptable addition salt thereof with an organic or inorganic acid, and at least one pharmaceutically acceptable inert ingredient.

32. A pharmaceutical composition according to claim 31,
characterized in that it contains a compound according to any one
15 of the preceding claims from 2 to 22.